

Ag. Waste Application and Excavated Ponds
Perkins County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AaB: Bullock-----	60	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.85 0.42 0.40	Very limited Deep to water	1.00
Parchin-----	30	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.70 0.42 0.40	Very limited Deep to water	1.00
AbC: Bullock-----	55	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.85 0.42 0.40	Very limited Deep to water	1.00
Slickspots, Dry-----	30	Not rated		Not rated	
Ac: Bullock-----	50	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.85 0.42 0.40	Very limited Deep to water	1.00
Trembles-----	20	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Slickspots, Dry-----	15	Not rated		Not rated	
AdD: Amor-----	60	Somewhat limited Slope Depth to bedrock Droughty	0.63 0.42 0.07	Very limited Deep to water	1.00
Cabba-----	25	Very limited Depth to bedrock Droughty Slope Runoff limitation Low adsorption	1.00 1.00 0.63 0.40 0.12	Very limited Deep to water	1.00
Ar: Arnegard-----	90	Not limited		Very limited Deep to water	1.00
Ba: Badland-----	80	Not rated		Not rated	
Bb: Banks-----	95	Very limited Filtering capacity Flooding Leaching limitation Droughty	1.00 0.60 0.45 0.29	Very limited Deep to water	1.00
BcA: Belfield-----	55	Very limited Restricted permeability Sodium content	1.00 0.82	Very limited Deep to water	1.00
Grail-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
BdB: Belfield-----	55	Very limited Restricted permeability Sodium content	1.00 0.82	Very limited Deep to water	1.00
Marmarth-----	30	Somewhat limited Droughty Depth to bedrock	0.53 0.42	Very limited Deep to water	1.00
BeC: Belfield-----	55	Very limited Restricted permeability Sodium content	1.00 0.82	Very limited Deep to water	1.00
Morton-----	30	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
BfA: Belfield-----	65	Very limited Restricted permeability Sodium content	1.00 0.82	Very limited Deep to water	1.00
Rhoades-----	20	Very limited Restricted permeability Sodium content Salinity Droughty Runoff limitation	1.00 1.00 0.78 0.43 0.40	Very limited Deep to water	1.00
BhE: Blackhall-----	40	Very limited Slope Depth to bedrock Droughty Runoff limitation Sodium content	1.00 1.00 1.00 0.40 0.32	Very limited Deep to water	1.00
Cabbart-----	40	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
CaE: Cabba-----	55	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	 1.00 1.00 1.00 0.40 0.12	Very limited Deep to water	 1.00
Lantry-----	30	Very limited Slope Depth to bedrock Droughty	 1.00 0.42 0.21	Very limited Deep to water	 1.00
CbD: Cabba-----	65	Very limited Slope Depth to bedrock Droughty Runoff limitation Low adsorption	 1.00 1.00 1.00 0.40 0.12	Very limited Deep to water	 1.00
Trembles-----	30	Somewhat limited Flooding	 0.60	Very limited Deep to water	 1.00
CcD: Cabba-----	50	Very limited Depth to bedrock Droughty Large stones on the surface Slope Runoff limitation	 1.00 1.00 1.00 0.96 0.40	Very limited Deep to water	 1.00
Wayden-----	40	Very limited Restricted permeability Depth to bedrock Droughty Cobble content Runoff limitation	 1.00 1.00 1.00 0.98 0.40	Very limited Deep to water	 1.00
CdE: Cohagen-----	50	Very limited Slope Depth to bedrock Droughty Low adsorption	 1.00 1.00 1.00 0.01	Very limited Deep to water	 1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Vebar-----	40	Very limited Slope Droughty Depth to bedrock	1.00 0.47 0.42	Very limited Deep to water	1.00
DaB: Daglum-----	60	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
Felor-----	35	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Db: Dimmick-----	50	Very limited Restricted permeability Depth to saturated zone Ponding Runoff limitation	1.00 1.00 1.00 0.40	Very limited Slow refill Cutbanks cave	1.00 0.10
Heil-----	40	Very limited Restricted permeability Depth to saturated zone Ponding Salinity Runoff limitation	1.00 1.00 1.00 0.50 0.40	Somewhat limited Slow refill Salty water Cutbanks cave	0.95 0.50 0.10
FaA: Farnuf-----	90	Not limited		Very limited Deep to water	1.00
FaB: Farnuf-----	90	Not limited		Very limited Deep to water	1.00
FbA: Farnuf-----	65	Not limited		Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Daglum-----	25	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
FcB: Felor-----	60	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Yegen-----	30	Not limited		Very limited Deep to water	1.00
FcC: Felor-----	55	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Yegen-----	35	Not limited		Very limited Deep to water	1.00
Fd: Dogiecreek-----	75	Very limited Salinity Flooding Depth to saturated zone Filtering capacity	1.00 1.00 1.00 1.00	Very limited Cutbanks cave Salty water	1.00 1.00
Ga: Grail-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
LaA: Lawther-----	90	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
LaB: Lawther-----	90	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
LaC: Lawther-----	85	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
LbB: Lefor-----	90	Somewhat limited Depth to bedrock Droughty Too acid	0.42 0.22 0.02	Very limited Deep to water	1.00
MaB: Manning-----	90	Very limited Filtering capacity Droughty	1.00 0.01	Very limited Deep to water	1.00
MbB: Marmarth-----	85	Somewhat limited Droughty Depth to bedrock	0.53 0.42	Very limited Deep to water	1.00
McA: Morton-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
McB: Morton-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
McC: Morton-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
MdC: Morton-----	55	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Lantry-----	25	Somewhat limited Depth to bedrock Droughty	0.42 0.21	Very limited Deep to water	1.00
MdD: Morton-----	40	Somewhat limited Depth to bedrock Droughty	0.42 0.02	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Lantry-----	35	Somewhat limited Slope Depth to bedrock Droughty	0.63 0.42 0.21	Very limited Deep to water	1.00
MeD: Morton-----	65	Somewhat limited Depth to bedrock Droughty	0.42 0.01	Very limited Deep to water	1.00
Rhoades-----	20	Very limited Restricted permeability Sodium content Salinity Droughty Runoff limitation	1.00 1.00 0.78 0.43 0.40	Very limited Deep to water	1.00
Pa: Parshall-----	85	Not limited		Very limited Deep to water	1.00
Pb: Orthents, Hummocky--	45	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.29	Very limited Deep to water	1.00
Hanly-----	40	Very limited Filtering capacity Leaching limitation	1.00 0.45	Very limited Deep to water	1.00
RaA: Reeder-----	90	Somewhat limited Depth to bedrock Droughty	0.42 0.13	Very limited Deep to water	1.00
RaC: Reeder-----	85	Somewhat limited Depth to bedrock Droughty	0.42 0.13	Very limited Deep to water	1.00
RbB: Reeder-----	60	Somewhat limited Depth to bedrock Droughty	0.42 0.13	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Amor-----	25	Somewhat limited Depth to bedrock Droughty	0.42 0.07	Very limited Deep to water	1.00
RcC: Reeder-----	55	Somewhat limited Depth to bedrock Droughty	0.42 0.13	Very limited Deep to water	1.00
Lantry-----	30	Somewhat limited Depth to bedrock Droughty	0.42 0.21	Very limited Deep to water	1.00
RdB: Reeder-----	60	Somewhat limited Depth to bedrock Droughty	0.42 0.13	Very limited Deep to water	1.00
Rhoades-----	30	Very limited Restricted permeability Sodium content Salinity Droughty Runoff limitation	1.00 1.00 0.78 0.43 0.40	Very limited Deep to water	1.00
ReB: Regent-----	65	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.01 0.01	Very limited Deep to water	1.00
Daglum-----	25	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
RfB: Regent-----	65	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.01 0.01	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Savage-----	25	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
RhD: Regent-----	60	Very limited Restricted permeability Depth to bedrock Droughty Salinity	1.00 0.42 0.01 0.01	Very limited Deep to water	1.00
Wayden-----	35	Very limited Restricted permeability Depth to bedrock Droughty Runoff limitation Slope	1.00 1.00 1.00 0.40 0.37	Very limited Deep to water	1.00
RkD: Rhoades-----	50	Very limited Restricted permeability Sodium content Salinity Droughty Runoff limitation	1.00 1.00 0.78 0.43 0.40	Very limited Deep to water	1.00
Cabba-----	25	Very limited Depth to bedrock Droughty Slope Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.12	Very limited Deep to water	1.00
RmC: Rhoades-----	40	Very limited Restricted permeability Sodium content Salinity Droughty Runoff limitation	1.00 1.00 0.78 0.43 0.40	Very limited Deep to water	1.00
Daglun-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Slickspots, Dry-----	15	Not rated		Not rated	
RnD: Rhoades-----	50	Very limited Restricted permeability Sodium content Salinity Droughty Runoff limitation	1.00 1.00 0.78 0.43 0.40	Very limited Deep to water	1.00
Rock Outcrop, Sandstone-----	35	Not rated		Not rated	
RoE: Rock Outcrop, Sandstone-----	50	Not rated		Not rated	
Cabba-----	40	Very limited Depth to bedrock Droughty Slope Runoff limitation Low adsorption	1.00 1.00 1.00 0.40 0.12	Very limited Deep to water	1.00
SaA: Savage-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
SbA: Savage-----	65	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Daglum-----	25	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.78 0.40	Very limited Deep to water	1.00
Sc: Shambo-----	90	Not limited		Very limited Deep to water	1.00
Sd: Shambo-----	85	Very limited Flooding	1.00	Very limited Deep to water	1.00
SeA: Stady-----	90	Very limited Filtering capacity Droughty	1.00 0.05	Very limited Deep to water	1.00
Sh: Lohler-----	65	Very limited Restricted permeability Flooding Salinity	1.00 0.60 0.01	Very limited Slow refill Deep to water Cutbanks cave Salty water	1.00 0.90 0.10 0.01
Trembles-----	25	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
Ta: Trembles-----	95	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
Tb: Trembles-----	90	Somewhat limited Flooding	0.60	Very limited Deep to water	1.00
TcD: Twilight-----	40	Somewhat limited Droughty Slope Depth to bedrock	0.96 0.63 0.42	Very limited Deep to water	1.00
Marmarth-----	25	Somewhat limited Droughty Depth to bedrock	0.53 0.42	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued
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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Parchin-----	25	Very limited Restricted permeability Sodium content Droughty Depth to bedrock Runoff limitation	1.00 1.00 0.94 0.42 0.40	Very limited Deep to water	1.00
VaC: Vebar-----	65	Somewhat limited Droughty Depth to bedrock	0.47 0.42	Very limited Deep to water	1.00
Cohagen-----	30	Very limited Depth to bedrock Droughty Low adsorption	1.00 1.00 0.01	Very limited Deep to water	1.00
VaD: Vebar-----	55	Somewhat limited Slope Droughty Depth to bedrock	0.63 0.47 0.42	Very limited Deep to water	1.00
Cohagen-----	35	Very limited Slope Depth to bedrock Droughty	1.00 1.00 1.00	Very limited Deep to water	1.00
VbB: Vebar-----	65	Somewhat limited Droughty Depth to bedrock	0.47 0.42	Very limited Deep to water	1.00
Tally-----	25	Not limited		Very limited Deep to water	1.00
w: Water (less Than 40 Acres)-----	100	Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value
WaD: Wabek-----	85	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 1.00 0.45	Very limited Deep to water	1.00
WbA: Wabek-----	90	Very limited Filtering capacity Droughty Leaching limitation	1.00 1.00 0.45	Very limited Deep to water	1.00
WcA: Watrous-----	85	Very limited Droughty Depth to bedrock	1.00 0.42	Very limited Deep to water	1.00
YaB: Yegen-----	90	Not limited		Very limited Deep to water	1.00
YaC: Yegen-----	90	Not limited		Very limited Deep to water	1.00
Za: Zeona-----	90	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.24	Very limited Deep to water	1.00

